

STIC Biotechnology Systems Branch Rec'd PCT/PTO 11 FEB 2005

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/524,193
Source: PT/10
Date Processed by STIC: 2/23/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

BEST AVAILABLE COPY



RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/524,193

DATE: 02/23/2005
TIME: 09:48:57

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\02232005\J524193.raw

4 <110> APPLICANT: National Institute of Advanced Industrial Science and Technology
6 <120> TITLE OF INVENTION: A novel expression vector suitable for the expression at low
7 temperature
9 <130> FILE REFERENCE: PH-1849-PCT
> 11 <140> CURRENT APPLICATION NUMBER: US/10/524,193
> 12 <141> CURRENT FILING DATE: 2005-02-11
14 <150> PRIOR APPLICATION NUMBER: JP 2002/235008
15 <151> PRIOR FILING DATE: 2002-08-12
17 <160> NUMBER OF SEQ ID NOS: 113
19 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
Corrected Diskette Needed

pp 1,4-5

ORED SEQUENCES

1142 <210> SEQ ID NO: 104
1143 <211> LENGTH: 30 41 shown below
1144 <212> TYPE: DNA
1145 <213> ORGANISM: Artificial Sequence
1147 <220> FEATURE:
1148 <223> OTHER INFORMATION: Description of Artificial Sequence:primer sHN343
1150 <400> SEQUENCE: 104
> 1151 aaactagttc agtgatgggt atgggtatgc tcgagagatc t 41
2192 <210> SEQ ID NO: 113
2193 <211> LENGTH: 8184
2194 <212> TYPE: DNA see p.4
2195 <213> ORGANISM: Artificial Sequence
2197 <220> FEATURE:
2198 <223> OTHER INFORMATION: Description of Artificial Sequence:vector
2199 pTip?LCH2
2201 <400> SEQUENCE: 113
2202 gagctcgacc gcgcgggtcc cggacgggaa agagcgggaa gctttgccag agagcgacga 60
2203 cttcccccttg cgttgggtat tgccggtcag ggcagccatc cgcgcattgtc gctgtgggtg 120
2204 tcacacccca ggaatcgctgt cactgaacac agcagccgtt aggacgacca tgactgagtt 180
2205 ggacaccatc gcaaattccgt ccgatcccgcc ggtgcagccgg atcatcgatg tcaccaagcc 240
2206 gtcacgatcc aacataaaga caacgttgcgtat cggggacgtc gagccctca tgcacagcat 300
2207 cgcggccggg gtggagttca tcgaggtcta cggcagcgac agcagtccctt ttccatctga 360
2208 gttgctggat ctgtgcgggc ggcagaacat accggccgc ctcatcgact cctcgatcg 420
2209 caaccagttt ttcaaggggg agcggaaaggc caagacattc ggcattcgccc gctgtccctcg 480
2210 cccggccagg ttccggcgata tcgctggccg gctgtgggac gtcgtcgatc tcgacgggtt 540
2211 gaagatcgcc gggaaacatcg ggcgcgtatgt acgcacgtcg ctcgcgtcg gagcgtcg 600
2212 gatcatcctgt gtggacagtg acatcaccag catcgccgac cggcgatctcc aaagggccag 660
2213 ccgagggttac gtctctccccc ttcccgatgt tctctccgtt cgcgaggagg ccatcgccctt 720
2214 cattcgggac agcggatgc agctgtatgc gctcaaggcgac gatggcgaca ttccgtgaa 780

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/524,193

DATE: 02/23/2005
TIME: 09:48:57

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\02232005\J524193.raw

2215 ggaactcggg gacaatccgg atcggctggc cttgctgttc ggcagcggaaa agggtgggccc 840
2216 ttccgacactg ttcgaggagg cgcttccgc ctcggttcc atccccatga tgagccagac 900
2217 cgagtctctc aacgtttccg tttccctcgg aatcgcgctg cacgagagga tcgacaggaa 960
2218 tctcgccggc aaccgataag cgctctgtt ctcggacgc tcggttccctc gaccctcgatt 1020
2219 cgtcaagtat gatcacatca cacggcagcg atcaccactg acatatcgag gtcaacggtc 1080
2220 gtggccggg cgggcactcc tcgaaggcgc gggcgcggcc cttaacggac tcgatgactc 1140
2221 tagagtaacg ggctactccg tttaacggac cccgttctca cgctttaggc ttgacccgg 1200
2222 agcctgcatg gggcattccg ccgtgaaccc ggtggatgc ccccgccacc cgggcttcc 1260
2223 agcaaagatc acctggcgcc gatgagtaag gctacagaa ccactccaca ggaggaccgt 1320
2224 cgagatgaaa tctaacaatg cgctcatcgat catcctccgc accgtcacc accgtgctgt 1380
2225 aggcataaggc ttggttatgc cggtactcgcc gggccttgc cggatatcg tccattccga 1440
2226 cagcatcgcc agtcaactatg gcgtgctgtc agcgctatgc gcgttgcgc aatttctatg 1500
2227 cgcacccgtt ctcggagcac tggccgcgc ctttggccgc cggccagtc tgctcgcttc 1560
2228 gctacttggc gccactatcg actacgcgtat catggcggacc acacccgtcc tggattct 1620
2229 ctacgcccggc cgcacatcgcc ccggcatcac cggccgcaca ggtgcgggtt ctggcccta 1680
2230 tatcgccgac atcaccgatg gggaaagatcg ggctccgcac ttccggctca tgagcgctt 1740
2231 tttccggcgtg ggtatggtgg caggccccgt gggccggggca ctgttggccgc ccatctcctt 1800
2232 gcatgcacca ttccctgcgg cggcggtgct caacggccctc aacctactac tggctgctt 1860
2233 cctaatacgat gagtcgcata agggagagcg tgcgtccatgc cccttgcgcag cttcaaccc 1920
2234 agtcaagtc ttcgggtgg cggggggcat gactatcgat gcccgcactt tgactgtctt 1980
2235 ctttatcatg caactcgtag gacaggtgccc ggcagcgttc tgggtcatt tcggcgagga 2040
2236 ccgccttcgc tggagcgcga cgatgtatcgcc cctgtcgctt ggggtattcg gaatctgca 2100
2237 cgcctctcgat caagcctcg tcaactggcc cggccacaaa cgttccggcc agaaggcaggc 2160
2238 cattatcgcc ggcacatggcgcc cgcacgcgc gggctacgtc ttgctggccgc tcgcgcgcgc 2220
2239 aggctggatg gcctcccca ttatgattct tctcgcttcc ggcggcatcg ggtatcccgc 2280
2240 gttgcaggcc atgctgtcca ggcaggtaga tgacgaccat caggagcacc ttcaaggatc 2340
2241 gctcgccgc tttaccagcc taacttcgtat cattggaccat ctgatcgatca cggcgattta 2400
2242 tgccgcctcg gcgagcacat ggaacgggtt ggcacatggatt gtggccgcgc ccctataacct 2460
2243 tgtctgcctc ccccggttgc gtgcgggtgc atggagccgg gccacctcgat cctgaatgg 2520
2244 agccggcgcc acctcgatca cggattcacc actccaaagaa ttggagccaa tcaattctt 2580
2245 cggagaactg tgaatgcgc aaccaaccc tggcagaaca tatccatcgat gcgcgcgc 2640
2246 tccagcagcc gcacgcgcgc catctcgccgc agcgttgggt cctggccacgc ggtgcgcatg 2700
2247 atcgtgctcc tgcgttgcg gactagaatt gatctctcg accgcacattt gggcatctga 2760
2248 gaatcatctg cgtttctcgat cgcacacgtat cttgcacgt tgcacactcc tggttgtga 2820
2249 atcacaccccc accgggggggt gggattgcgat tcaccgatgg tgggggtgcgc cccagaaga 2880
2250 tcacgtttac ataggagctt gcaatgagctt actccgtggg acagggtggcc ggttcgcgc 2940
2251 gagtgacggc ggcacgcgc caccactacg acgacatcgcc cctgctcgat cggagcgcgc 3000
2252 gcagccacgc gggccacccgg cgtacacgcg acgcccaccc cggccggctc cagcagatcc 3060
2253 tggcttacccg ggagctggcc ttcccgctcg acgaggtcgat cggccctgcgc gacgaccggc 3120
2254 ccgcggaccc ggcgcgcgc acatcgccgc acgacacgcg gctgtccgcgc cggatcgcc 3180
2255 aactgcagaa gatggcgccg gccgtggagc aggcgtatggat ggcacgcgc accgttgcaca 3240
2256 acctcaccatcc gggaggagaat ttcgaggatct tcggcgactt cgcacccgcac cgtacgagg 3300
2257 aggaggccgc ggaacgcgtt gggaaacacccg acgcctaccg ccagtccaaag gagaagaccg 3360
2258 cctcgatcac caaggaggac tggcagcgc tccaggacgc gggcgcacgc ctcacccggc 3420
2259 gcttcgtcgat cctgtatggac gcggtggatcc cggccgcactc cggggggccatggacgcgc 3480
2260 ccgaggacca cggcgaggcc atcgccgcac accactacgat ctgcgggtac gagatgcaca 3540
2261 cctgcctggg cgagatgtac gtgtccgcacg aacgtttcac gcaacacatc gacgcgcgc 3600
2262 agccggccct cggccctac atgcgcgcacg cgtacctcgat cacaacccgc cggcacaccc 3660
2263 cctgagcggt ggtcggtggcc cgggtctcc accccacggc tcaactccgg 3720

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/524,193

DATE: 02/23/2005
TIME: 09:48:57

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\02232005\J524193.raw

2264 gccacgacca ccggcgtccc gtacgcgcac acctcggtgc ccacgtccgc cgccctccgtc 3780
 2265 acgtcgaaac ggaagatccc cgggtaccga gctcgtcagg tggcactttt cggggaaatg 3840
 2266 tgcgcggaac ccctatttgt ttattttct aaatacattc aaatatgtat ccgctcatga 3900
 2267 gacaataacc ctgataaattt cttcaataat attgaaaaag gaagagtatg agtattcaac 3960
 2268 atttccgtgt cgcccttatt ccctttttg cggcatttg ctttcgtt tttgctcacc 4020
 2269 cagaaacgct ggtgaaagta aaagatgctg aagatcagtt ggtgcacga gtgggttaca 4080
 2270 tcgaactgga tctcaacagc ggtaagatcc ttgagagttt tcgccccgaa gaacgtttc 4140
 2271 caatgatgag cacttttaaa gttctgtat gtggcgcggt attatccgt attgacgccc 4200
 2272 ggcaagagca actcggtcgc cgcatacact attctcagaa tgacttgggtt gagtactcac 4260
 2273 cagtacacaga aaagcatctt acggatggca tgacagtaag agaattatgc agtgcgtcca 4320
 2274 taaccatgag tgataacact gcggccaact tacttctgac aacgatcgga ggaccgaagg 4380
 2275 agctaaccgc tttttgcac aacatggggg atcatgtaac tcgccttgat cggtggaaac 4440
 2276 cgagactgaa tgaagccata ccaaacgacg agcgtgacac cacgatgcct gtagcaatgg 4500
 2277 caacaacgtt gcgcaacta ttaactggcg aactactac tctagcttcc cggcaacaat 4560
 2278 taatagactg gatggaggcg gataaagttt caggaccact tctgcgctcg gcccctccgg 4620
 2279 ctggctgggt tattgctgat aaatctggag ccggtgagcg tgggtctcgc ggtatcattg 4680
 2280 cagcaactggg gccagatggt aagccctccc gtatcgtagt tatctacacg acggggagtc 4740
 2281 aggcaactat ggtgaacga aatagacaga tcgctgagat agtgcctca ctgattaagc 4800
 2282 attgtaact gtcagaccaa gtttactcat atatactta gattgattt aaacttcatt 4860
 2283 ttaatttaa aaggatcttag gtgaagatcc ttttgataa tctcatgacc aaaatccctt 4920
 2284 aacgtgagtt ttcgttccac tgagcgtcag accccgtaga aaagatcaaa ggttcttctt 4980
 2285 gagatcctt ttttctgcgc gtaatctgtc gtttgcacaa aaaaaaaccac ccgctaccag 5040
 2286 cggtggttt tttgcccgtat caagagctac caactcttt tcgaaaggta actggcttca 5100
 2287 gcagagcgc gataccaaat actgttcttc tagttagtgc gtagttaggc caccacttca 5160
 2288 agaactctgt agcaccgcct acatacctcg ctctgctaattt cctgttacca gtggctgctg 5220
 2289 ccagtggcga taagtcgtgt cttaccgggt tggactcaag acgatagttt ccggataagg 5280
 2290 cgcaacggc gggctgaacg ggggttcgt gcacacagcc cagcttggag cgaacgacct 5340
 2291 acaccgaact gagataccta cagcgtgagc tatgagaaag cggcacgcctt cccgaaggga 5400
 2292 gaaaggcggc caggtatccg gtaagcggca ggtcggaaac aggagagcgc acgaggggagc 5460
 2293 ttccaggggg aaacgcctgg tatctttata gtcctgtcgg gtttcgcccac ctctgacttg 5520
 2294 agcgtcgatt tttgtatgc tcgtcagggg ggcggagcct atggaaaaac gccagcaacg 5580
 2295 cggcctttt acggttcctg gccttttgc ggcctttgc tcacatgttc ttccctgcgt 5640
 2296 tatccccgtt ttctgtgtat aaccgttata ccgcctttga gtgagctgtat accgctcgcc 5700
 2297 gcagccgaac gaccgagcgc agcgagtcag tgagcggaa agcggaaagag cgcccaataac 5760
 2298 gcaaaccgc tctcccccgc cggtggccga ttcatataatg cagctggcac gactagagtc 5820
 2299 ccgctgaggc ggcgtagcag gtcagccgc ccagcgtgg tcaccaaccc ggttgaacg 5880
 2300 ggcgcggtat cgggtgtgtc cgtggcgctc attccaaacct ccgtgtgttt gtgcagggtt 5940
 2301 cgcgtgtgc agtcccctcg accggcaccc gcagcggagg gtcacgggt gccgggtgg 6000
 2302 cgactagttc agtgatggtg atgtgtatgt cctcgagatc taagcttggta tccgcggcc 6060
 2303 ctacgtagaa ttcccatatg tataatctcct tcttaaagtt aaacaaaatt atttctagac 6120
 2304 gccgtccacg ctgcctcctc acgtgacgtg aggtgcacgc ccggacgttc cgcgtgccac 6180
 2305 gccgtgagcc gccgcgtgcc gtcggctccc tcagccggg cggccgtggg agccgcctc 6240
 2306 gatatgtaca cccgagaagc tcccaacgc tcctcggtcc gcgataactcg accaccacgc 6300
 2307 acgcacacccg cactaacgt tcggccggcg ctcgattcgg cccggcgtcg attcggccgg 6360
 2308 cgctcgattt cggccggcgct cgattcggcc ggcgtcgat tcggccggc agaagagtga 6420
 2309 acaaccaccc accacgcctc cgctctgcgc gccgtacccg acctacctcc cgcaagtcga 6480
 2310 agcaagctccc gggagtaccg ccgtactcac ccgcctgtgc tcaccatcca ccgacgcaaa 6540
 2311 gcccaacccg agcacaccc ttgcaccaag gtgcccaccc tgcttccg ctcgcagggt 6600
 2312 tccagaagaa atcgaacat ccagcggcggc aaggttcaaa aagcagggtt tggtgggag 6660

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/524,193

DATE: 02/23/2005
TIME: 09:48:57

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\02232005\J524193.raw

2313 gaggttttgg ggggtgtcgc cgggataacct gatatggctt tggtttgcgt agtcgaataa 6720
2314 ttttccatat agcctcgccg cgtcggactc gaatagttga tggggcggg cacagttgcc 6780
2315 ccatgaaatc cgcaacgggg ggcgtgctga gcgtatcgca atggcgat gcggtgtgc 6840
2316 ttccgcaccg gccgttcgcg acgaaacaacc tccaacgagg tcgttaccgg atgagccgcg 6900
2317 acgacgcatt ggcaatgcgg tacgtcgagc attcaccgcg cgcgttgctc ggatctatcg 6960
2318 tcatcgactg cgatcacgtt gacgcgcga tgcgcgcatt cgagcaacca tccgaccatc 7020
2319 cggcgccgaa ctgggtcgca caatcgccgt cggccgcgc acacatcgga tggtgctcg 7080
2320 gcccccaacca cgtgtgcgc accgacagcg cccgactgac gcactgcgc tacgcccacc 7140
2321 gcatcgaaac cggcctcaag atcagcgctc gggcgattt cgcgtatggc gggcaactga 7200
2322 ccaaaaaccc gattcacccc gattgggaga cgatctacgg cccggccacc ccgtacacat 7260
2323 tgcggcagct ggccaccatc cacacacccc ggcagatgcc gcgtcgccccc gatcgggccc 7320
2324 tgggcctggg cgcacacgtc accatgttcg acgcccacccg gcatggca taccgcagt 7380
2325 ggtggcaaca cggaaacgga accggccgcg actgggacca tctcgctctc cagcaactgcc 7440
2326 acggcgtcaa caccgagttc acgacaccac tgccgttcac cgaagtacgc gccaccgcgc 7500
2327 aatccatctc caaatggatc tggcgcaatt tcaccgaaga acagtaccga gcccgacaag 7560
2328 cgcacatctcg tcaaaaaggc ggcaaggcaa cgacactcgc caaacaagaa gccgtccgaa 7620
2329 acaatgcaag aaagtacgac gaacatacga tgcgagaggc gattatctga tggcggagc 7680
2330 caaaaatccg gtgcgcgaa agatgacggc agcagcagca gcccggaaat tcgggcctc 7740
2331 cactcgacaa atccaacgct tggttgcgt gccgcgtgac gattacctcg gccgtgcgaa 7800
2332 agctcgccgt gacaaagctg tcgagctgcg gaagcagggg ttgaagtacc gggaaatcgc 7860
2333 cgaagcgatg gaactctcga cgggatcgat cggccgatcca ctgcacgacg cccgcaggca 7920
2334 cggcgagatt tcagcggagg atctgtcgcc gtaaccaagt cagcgggttg tcgggttccg 7980
2335 gccggcgctc ggcactcgga ccggccggcg gatgggttgc tgcctctggc gcagcgtcag 8040
2336 ctacccgcga aggccctgtca tcgaccggct tcgactgaag tatgagcaac gtcacagcct 8100
2337 gtgattggat gatccgctca cgctcgaccg ctacctgttc agctgccgcg cgctggccat 8160
2338 gagcaacggc caactctcg tcaa 8184

> 2340 1/81

delete

10/5/94, 1993

5

<210> 51
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:primer
pTrc99ATM Cseq

<400> 51

cagaccgctt ctgcgttctg

do NOT use non-ASCII symbols - Please correct this
throughout

20

sequence listing

VERIFICATION SUMMARY**PATENT APPLICATION: US/10/524,193****DATE: 02/23/2005****TIME: 09:48:58**

Input Set : A:\PTO.SR.txt
Output Set: N:\CRF4\02232005\J524193.raw

1 M:270 C: Current Application Number differs, Replaced Application Number
2 M:271 C: Current Filing Date differs, Replaced Current Filing Date
151 M:252 E: No. of Seq. differs, <211> LENGTH:Input:30 Found:41 SEQ:104
340 M:254 E: No. of Bases conflict, LENGTH:Input:81 Counted:8185 SEQ:113
340 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:2
340 M:252 E: No. of Seq. differs, <211> LENGTH:Input:8184 Found:8185 SEQ:113